

Comparisons of Job Characteristics

Focus Occupation: [Electrical and Electronics Drafters \(17-3012\)](#)

Associated Occupation: [Commercial and Industrial Designers \(27-1021\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 91

Focus Occupation: Electrical and Electronics Drafters (17-3012)
Associated Occupation: Commercial and Industrial Designers (27-1021)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Design	5.2	22.2	16.9	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	18.3	12.7	<<	Extensive education and/or training may be required
Mechanical	6.8	15.3	8.6	<<	Extensive education and/or training may be required
Production and Processing	6.0	14.3	5.2	<<	Extensive education and/or training may be required
Physics	4.3	9.6	5.7	<<	Extensive education and/or training may be required
Fine Arts	2.2	5.3	1.4	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 93

Focus Occupation: Electrical and Electronics Drafters (17-3012)
Associated Occupation: Commercial and Industrial Designers (27-1021)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Operations Analysis	5.0	12.0	8.2	<<	Extensive development of skills in this area may be required
Technology Design	2.6	9.5	2.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 94			
Focus Occupation: Electrical and Electronics Drafters (17-3012) Associated Occupation: Commercial and Industrial Designers (27-1021)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Originality	7.6	14.7	8.3	<<	Extensive improvement in abilities may be required
Deductive Reasoning	10.6	14.1	10.5	<<	Extensive improvement in abilities may be required
Near Vision	11.1	13.5	12.2	<	Some improvement in abilities may be required
Visualization	7.5	13.1	9.9	<<	Extensive improvement in abilities may be required
Fluency of Ideas	7.6	12.8	7.6	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	11.9	10.7	<	Some improvement in abilities may be required
Category Flexibility	9.0	11.5	8.4	<<	Extensive improvement in abilities may be required
Mathematical Reasoning	6.3	9.6	7.6	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 78
Focus Occupation: Electrical and Electronics Drafters (17-3012) Associated Occupation: Commercial and Industrial Designers (27-1021)		
Work Activities	Exclusivity of Activity	
Analyze technical data, designs, or preliminary specifications	47	
Draw prototypes, plans, or maps to scale	57	
Follow manufacturing methods or techniques	73	
Read blueprints	10	
Use computer aided drafting or design software for design, drafting, modeling, or other engineering tasks	58	
Use computer graphics design software	70	
Use computers to enter, access or retrieve data	3	
Use drafting or mechanical drawing techniques	50	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 73

Focus Occupation: Electrical and Electronics Drafters (17-3012)
Associated Occupation: Commercial and Industrial Designers (27-1021)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Content authoring and editing software	1
Data management and query software	1
Industry specific software	1
Information exchange software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.